

Active Recombinant Human PDCD1LG2, His-tagged

Cat. No. PDCD1LG2-168H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human B7-DC /PD-L2 /CD273 Protein (rh B7-DC / PD-L2 / CD273) Leu 20 - Pro 219 (Accession # AAI13679) was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	20-219 a.a.
Description	Programmed cell death 1 ligand 2 (PD-L2 or PDCD1 ligand 2) is also known as Butyrophilin B7-DC, CD antigen CD273, which belongs to the immunoglobulin superfamily or BTN/MOG family. The expression of PD-L2 is up-regulated by IFNG/IFN-gamma stimulation in monocytes and induced on dendritic cells grown from peripheral blood mononuclear cells with CSF2 and IL-4. PD-L2 Involved in the costimulatory signal, essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. PD-L2 interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized rh B7-DC / PD-L2 / CD273 at 1 µg/mL (100 µl/well) can bind rhPDCD-1 with a linear range of 15 - 500 ng/ml.

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Molecular Mass	rh B7-DC / PD-L2 / CD273, fused with polyhistidine tag at the C-terminus, has a calculated MW of 23.4 kDa. The predicted N-terminus is Leu 20. DTT-reduced Protein migrates as 35-48 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the rh B7-DC / PD-L2 / CD273 by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

GENE INFORMATION

Gene Name	PDCD1LG2 programmed cell death 1 ligand 2 [Homo sapiens]
Official Symbol	PDCD1LG2
Synonyms	PDCD1LG2; programmed cell death 1 ligand 2; B7 dendritic cell molecule; B7 DC; bA574F11.2; Btdc; CD273; PD L2; PDL2; B7-DC; PD-1 ligand 2; PD-1-ligand 2; PDCD1 ligand 2; butyrophilin B7-DC; programmed death ligand 2; B7DC; PD-L2; PDCD1L2; MGC142238; MGC142240;
Gene ID	80380
mRNA Refseq	NM_025239
Protein Refseq	NP_079515

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MIM	605723
UniProt ID	Q9BQ51
Chromosome Location	9p24.2
Pathway	Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem; PD-1 signaling, organism-specific biosystem;
Function	molecular_function; protein tyrosine phosphatase activity; receptor activity;

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